

**Meeting Minutes  
Travis Air Force Base  
Environmental Management  
Building 246, Downstairs Conference Room  
Installation Restoration Program  
Remedial Program Managers Meeting**

**6 December 2000, 0930 hours**

Mr. Allen Brickeen, Travis Air Force Base (AFB), conducted the Remedial Program Managers (RPM) Meeting held on 6 December 2000 at 0930 in Building 246, Downstairs Conference Room, Travis AFB, California. Attendees included:

- Allen Brickeen Travis AFB
- Mark Sandy Travis AFB
- Glenn Anderson Travis AFB
- Dale Malsberger Travis AFB
- Wilford Day Travis AFB
- Lonnie Duke Travis AFB
- Anne D’Lima Travis Restoration Advisory Board (RAB) Member
- 1<sup>st</sup> Lt. Sierra Suhajda Air Force Center for Environmental Excellence (AFCEE)
- Carolyn Graham AFCEE
- John Lucey United States Environmental Protection Agency (U.S. EPA)
- Jose Salcedo Department of Toxic Substance Control (DTSC)
- Elizabeth Allen TechLaw
- Claudia Villacorta San Francisco Bay Regional Water Quality Control Board (SFBRWQCB)
- Daryl Greenway CH2M HILL
- Loren Krook CH2M HILL
- Deena Stanley URS/Radian International
- Mike Wray GTI/IT

Handouts distributed throughout the meeting included:

- Attachment 1 Meeting Agenda
- Attachment 2 Master Meeting, Teleconference, and Document Schedule
- Attachment 3 South Base Boundary Groundwater Treatment Plant (SBBGWTP) Monthly Data Sheet
- Attachment 4 Draft Technical Memorandum — SBBGWTP Air Stripper Shakedown/Startup Sampling Report
- Attachment 5 SBBGWTP System Start-up (excerpt)
- Attachment 6 SBBGWTP Monitoring and Sampling Log
- Attachment 7 CGWTP Monthly Data Sheet
- Attachment 8 North Groundwater Treatment Plant (NGWTP) Monthly Data Sheet
- Attachment 9 NGWTP Notice of Violation
- Attachment 10 Amount of Product Removed (in gallons) at ST032 & SD034
- Attachment 11 Amount of Product Removed (in gallons) at SS014
- Attachment 12 Fuel/Day Recovered Since June 1998
- Attachment 13 URS Field Activities (July/August 2000)
- Attachment 14 Travis AFB — CH2M HILL Field Activities, December 2000 – January 2001
- Attachment 15 GTI Field Activities (August/September 2000)

## **1. ADMINISTRATIVE**

Mr. Allen Brickeen (Travis AFB) introduced Ms. Carolyn Graham of AFCEE.

### **A. Previous Meeting Minutes**

Mr. Brickeen — The 25 October 2000 meeting minutes went final.

### **B. Four-Month Calendar of Upcoming Milestones and Meeting Dates**

The revised Travis AFB Master Meeting, Teleconference, and Document Schedule, and Historical Calendar were distributed (see Attachment 2).

#### **Annual Meeting and Teleconference Schedule**

— The October 2001 RAB meeting date was corrected to 11 October 2001.

## **Master Meeting and Document Schedule**

- Page 2, LF008 Groundwater Treatment Plant O&M Manual and DP039 Groundwater Treatment Plant O&M Manual schedules have been added.
- Page 3, LF007/CAMU Soil Design Package draft to agencies and to the RAB dates were changed to 29 November 2000 to reflect the actual submission date. The agency comments are due on 29 January 2001.
- Page 3, Natural Attenuation Assessment Work Plan (NAAW) Technical Memorandum for West Industrial Operable Unit (WIOU), FT004/SD031 and DP039 schedules were revised due to delays caused by obtaining Federal Aviation Administration waivers and getting equipment scheduled and mobilized.
- Page 4, Basewide Soil Remedial Design/Remedial Action (RD/RA) Plan for Remedial Actions/Corrective Action Management Unit (CAMU) and SD042 Soil RD schedules were revised, pending the barium issue and resolution of internal comments.
- Page 4, RW013 Soil Design schedule was changed to TBD (to be determined) in order to determine who, within the Air Force, has jurisdiction.
- Page 5, LF007/CAMU Soil RD/RA Basis of Design reflects actual date of response to comments.
- Page 7, Ground Water Sampling and Analysis Program (GSAP) 2000 Third Quarter Report final due date was changed to reflect actual date of submission.
- Page 9, ST032 RD/RA Free Product Removal RD/RA Work Plan, Design Package; NAAW Technical Memorandum for ST032; and GSAP 2000 Semi-Annual Report were moved to the historical section.

## **2. OPERABLE UNIT UPDATE**

### **A. North/East/West/ Industrial Operable Unit**

#### **1. Landfill Cap Design**

Mr. Malsberger stated that the draft Landfill Cap Design was submitted 29 November 2000 and agency comments are due on 29 January 2001. Mr. Malsberger sent an e-mail to Ms. Claudia Villacorta informing her of the point of contact for the Integrated Waste Management Board. This information will be forwarded to Mr. Lucey and Mr. Salcedo.

**2. CAMU Grandfathering**

Mr. Malsberger stated that letters stating the justification for grandfathering Travis AFB's CAMU were received from the agencies (DTSC and RWQCB combined their letter). These letters will go into the Administrative Record. This will help in obtaining the CAMU.

**3. CAMU Acceptance Level Technical Memorandum**

Mr. Malsberger stated that comments were received from U.S. EPA and RWQCB. Mr. Salcedo stated that DTSC will defer to the Water Board.

Mr. Malsberger will prepare a preliminary response to the comments and schedule a meeting if necessary.

**4. RD/RA Plan**

Mr. Malsberger stated that Travis AFB is reviewing and incorporating internal comments and waiting to resolve the barium issue.

**5. Vernal Pools**

Mr. Malsberger stated that Travis AFB submitted a package to U.S. Fish and Wildlife Service (USFWS) on 14 November 2000, requesting an informal consultation to discuss the landfill design that will destroy approximately 2 acres of non-jurisdictional wetlands on the existing landfill. (A courtesy copy of the package was sent to the agencies.) Travis AFB will need to discuss buffer zones and any other mitigation issues. The USFWS has delayed their response two months. It may be necessary to request a formal consultation if the informal process is delayed too long.

Mr. Lucey asked if USFWS would be concerned about non-jurisdictional wetlands. Mr. Malsberger stated that Travis AFB will need to get USFWS concurrence since the construction will be closer to the vernal pools than the 200-foot standard for buffer zone. Travis AFB is confident that the action can be taken without having an impact upon the wetlands with threatened or endangered species.

Mr. Malsberger stated that the Air Force's internal regulation states "no net loss of wetlands on government facilities;" therefore, Travis AFB will buy into a local wetland bank to do mitigation. A local wetland bank (Campbell Ranch) is located south of B&J landfill and could be a suitable candidate.

## **6. Tiger Salamander Survey**

Mr. Malsberger stated that the final salamander survey at site LF007 will take place during the upcoming wet season. A report will be sent to USFWS summarizing all the surveys. If no salamanders are found in this last survey, the conclusion will be that there are no tiger salamanders to be considered at this site. A copy of this report will be sent to the agencies and those on the original distribution list.

## **B. WABOU**

### **1. Groundwater Protection Technical Memorandum**

Mr. Anderson stated that he is completing his response to the Water Board's comments on the Groundwater Protection Technical Memorandum.

#### **Landfill X**

Mr. Anderson stated that he has responded to all of U.S. EPA's comments on the Groundwater Protection Technical Memorandum except for the one addressing Landfill X.

“EPA does not concur with selecting Alternative S2 (Land Use and Access Restrictions) as a permanent remedy for Landfill X. As an interim remedy Alternative S2 is adequate but additional remedial actions are required for permanent closure of this site. Refer to comment on WABOU Soil Record of Decision (ROD).”

Mr. Anderson stated that in order to conduct a contingency action, one would have to know the intended land use.

Mr. Anderson explained that Landfill X is not really a landfill. It is an area where construction debris is placed before it is sent to a recycler and where heavy equipment training is conducted. The remedial alternative selected would place a fence around this area to limit access. A berm would be placed between this active area and the adjacent vernal pool.

Mr. Anderson stated that U.S. EPA also suggested that Travis AFB excavate the soil to a depth of 6 inches and replace it with 6 inches of clean soil. Mr. Anderson asked if this will remove the institutional control from the site. Mr. Lucey stated that he did not know.

Mr. Lucey stated that his comment is based on the language in the draft WABOU Record of Decision (ROD), which states that if the Air Force decides to use this site for a different land use in the future, then at that time an appropriate remedy will be considered. It is Mr. Lucey's opinion that if the Air Force is proposing to have institutional control, it should be stated in the ROD.

Mr. Anderson asked if that sentence were removed, would it resolve the problem. Mr. Lucey stated that it would if all concur that institutional control is the remedy.

Mr. Lucey suggested that the Air Force remove the degraded asphalt at the entrance of the site, since it is the main source of polycyclic aromatic hydrocarbons (PAH) in the vernal pools. He also suggested that the Air Force excavate the debris and place it into the CAMU to keep the cost down.

Mr. Lucey asked what is the purpose of this site. Mr. Anderson explained that Civil Engineering uses this area to temporarily store construction debris for later off-site disposal and for heavy equipment training.

Mr. Lucey stated that if the remedial investigation data show that PAHs are not a risk to the vernal pools and contaminated soil is a long distance away, then institutional controls and monitoring the health of the vernal pools would be appropriate. If the land use changes in the future, then the action would change. If the PAHs detected near the vernal pools are a threat, then the small amount of asphalt at the entrance of the site should be excavated.

Mr. Anderson stated that he will determine if there is any surface water data in the WABOU remedial investigation report concerning the vernal pools.

## **2. SD042 Cleanup Levels versus Reference Levels**

See closed Action Item #2.

## **3. Ecological Approach**

Mr. Anderson stated that Travis AFB hosted an ecological risk assessment meeting on 30 November 2000 to discuss the basewide ecological approach currently presented in the draft WABOU Soil ROD. U.S. EPA, DTSC, URS, CH2M HILL, and AFREO/SF representatives participated in the meeting.

Mr. Salcedo stated that the outcome of the meeting was that the regulatory agencies asked Travis AFB to provide a technical memorandum that would address the following issues:

1. The agencies' concerns regarding perceived high hazard quotients by providing additional tables for the individual sites that include the low observed effect levels (LOELs) (computed as 10 times the NOELs), the site use factor for birds and mammals, and the revised hazard quotient.
2. The agencies' concerns regarding the cumulative effects of chemicals by providing additional tables for the individual sites to include a discussion of the mechanism of action or the target organ from the different compounds for birds and mammals. If a site has more than one chemical with the same target organ, then Travis AFB would evaluate the cleanup levels accordingly for that site.

Mr. Anderson stated that Travis AFB agreed to develop and evaluate the impact of an ecological technical memorandum that would address the agencies concerns once funding to support the WABOU Soil ROD became available. If considered acceptable, then Travis AFB would submit the memorandum to the agencies for their review.

Travis AFB will submit minutes of the ecological risk assessment meeting to the agencies for review.

### **3. CURRENT PROJECTS**

#### **A. Treatment Plant Performance Monitoring Recommendations**

Mr. Sandy stated that he has received comments from the Water Board and is currently addressing the comments. Mr. Salcedo and Mr. Lucey will submit "no comment" letters.

#### **B. South Base Boundary Treatment Plant**

Mr. Mark Sandy reported that the South Base Boundary Groundwater Treatment Plant (SBBGTP) performed at 92% uptime with approximately 5.8 million gallons of groundwater extracted and treated during the reporting period. The average flow was 140.0 gallons per minute (gpm). Approximately 4.1 pounds of volatile organic compounds (VOCs) were removed during October 2000. The total mass of VOCs removed since startup of the system is 120.6 pounds. (See Attachment 3.)

Mr. Sandy stated that the air stripper has been installed and a startup test conducted. A draft technical memorandum, the SBBGWTP Air Stripper Shakedown/Startup Sampling Report (see Attachment 4), was submitted to the

agencies via e-mail stating that the results met current SBBGWTP effluent discharge standards.

Mr. Sandy distributed a one-page excerpt discussing the startup procedures (see Attachment 5). This excerpt was also e-mailed to the agencies.

Mr. Sandy stated that Ms. Raker was concerned about monitoring air flow through the air strippers. Mr. Sandy stated that air flow will be monitored weekly and recorded in a log sheet. An example of the log sheet was distributed (see Attachment 6).

### **Other**

Travis AFB has generated a data report on every dioxin detection on the base since 1993. This report will be e-mailed to all the agencies.

### **C. Central Groundwater Treatment Plant**

Mr. Sandy reported that the Central Groundwater Treatment Plant (CGWTP) performed at 76.6% uptime with approximately 3.3 million gallons of groundwater treated. Approximately 2.6 million gallons of water were extracted and treated from SS016 during the reporting period. The West Treatment Transfer Plant (WTTP) and associated well fields extracted approximately 2.56 million gallons. The average flow for the CGWTP was 96 gpm for the month. Approximately 23.2 pounds of VOCs were treated during October 2000. The total mass of VOCs removed since startup of the system is 871 pounds. (See Attachment 7.)

Mr. Sandy stated that the revision to the CGWTP Operation and Maintenance Manual will be submitted in the next few months to reflect the recent updates.

### **D. North Groundwater Treatment Plant**

Mr. Sandy reported that the North Groundwater Treatment Plant (NGWTP) performed at 75.6% uptime. From 26 September to 30 October 2000, approximately 3.2 pounds of VOCs were removed. Approximately 0.5 million gallons of water were extracted and treated. The average flow for the NGWTP was 28.1 gpm for the month of October. The total mass of VOCs removed since startup of the system is 44 pounds. (See Attachment 8.)

Mr. Sandy stated that the NGWTP experiences problems in the variable frequency drive (VFD). Mr. Mike Wray stated the original VFD and the pump were replaced, without any success. The VFD was replaced for the second time and the system became operational. The NGWTP was non-operational for approximately 4 weeks.



**1. Notice of Violation**

Mr. Sandy stated that Travis AFB will modify the off gas for the air stripper so that it does not conflict with the stream from the soil vapor extraction system. This will then maintain the desired 600 standard cubic feet per minute (scfm) air stripper flow. The internal response will be available within 10 days. A copy of the notice of violation is to be included in the minutes.(See Attachment 9.)

**2. Plant Modification**

Ms. Villacorta stated that the Pollution Preventive Plan could be included in the updated O&M manual. Mr. Brickeen stated that Travis AFB would provide a letter to the RWQCB stating the corrective actions of the air stripper and provide an updated O&M manual.

**3. 1,4-Dioxane Sampling**

Mr. Sandy stated that the influent and effluent were sampled and the analysis did not detect 1,4-dioxane.

**E. ST032 Evaluation of Remedies**

Mr. Sandy stated that comments were received from RWQCB, who agreed that ST032 on the south end could be grouped with the south well field. Mr. Lucey said that he would provide comments. Mr. Salcedo said that he would not provide comments.

**F. WIOU NAAW Review**

Mr. Malsberger stated that he received comments from RWQCB and U.S. EPA. Mr. Salcedo stated that he has no comments.

Mr. Malsberger provided the agencies a preliminary response to comments. Mr. Malsberger requested the agencies review the responses. A teleconference for the WIOU NAAW comments is scheduled for 13 December 2000 at 3:00 p.m.

**G. Cypress Lakes Golf Course Removal Action**

Mr. Anderson stated that Travis AFB began the Cypress Lakes Golf Course removal action approximately three weeks ago. Confirmation sampling and analysis demonstrated that only one location remained above soil cleanup levels. Travis AFB excavated an additional 3.5 feet down (17 by 7 foot excavation) in the vicinity of the "hot spot". The subsequent confirmation samples (for pesticides and DI WET analyses) will be collected on 7 December 2000.

#### **H. DP039 Groundwater System Startup**

Mr. Anderson stated that the temporary dual-phase extraction (DPE) system provided by AFCEE as part of the treatability study has been shutdown and removed from the battery shop. Travis AFB is now in the process of reviewing the data from the DP039 treatability study. Travis AFB will also complete the installation of the permanent DPE system. The schedule for the DPE O&M manual has been established. Travis AFB will begin testing the permanent system in February 2000.

#### **I. Fuel Recovery Update**

Mr. Wilford Day distributed handouts titled Amount of Product Removed (in gallons) at ST032, SD034 and SS014 (see Attachment 10 and 11). Travis AFB has recovered small amounts of floating fuel from ST032 and SD034 this year. At SS014 several gallons of fuel have been recovered but the recent rain storms have hampered fuel recovery and resulted in no fuel being recovered in the last five days from monitoring well (MW)5302.

A chart was distributed that depicted fuel recovered per day at three SS014 monitoring wells (see Attachment 12). There is a wide variation in the fuel recovery pattern. During the rainy season the flow rate is very low to non-existent. Mr. Day stated this indicates there are pockets of fuel, which can migrate to the monitoring wells only when the water table is at a certain level. The low dry season water table level appears to be most conducive to recovering this floating fuel.

### **4. PROGRAM ISSUES UPDATE**

#### **A. Budget**

Mr. Brickeen stated that Travis AFB will not receive funds to place on contract until the end of January 2001; therefore, there may not be sufficient funds to operate SBBGWTP in early January 2001.

Mr. Brickeen stated the appraisal for purchasing an easement at the Peterson's property expires early January 2001.

#### **B. Hard Copies of Comments**

Mr. Brickeen reminded agencies to submit hard copy of comments as required.

#### **C. Other**

Mr. Brickeen distributed the field activity reports from CH2M HILL, GTI, and URS/Radian International (see Attachments 13, 14, and 15).

- There will be RAB meeting on 11 January 2001. There will be a dry run on 21 December 2000 tentatively in the Wing Commander's conference room.

The main topics of discussion will be ecological assessment and risk management, and an overview of the soil strategy. Other topics will be updates on the Soil ROD, the budget, Cypress Lakes Golf Course removal action, and status of real estate negotiations.

The agencies will give a summary of the ecological risk assessment approach. If available, an agency's risk assessor will be present.

- Ms. Villacorta asked what is the newsletter deadline. Mr. Brickeen stated generally one month after the RAB meeting.
- Mr. Brickeen requested comments on the Potrero Hills meeting minutes from U.S. EPA and DTSC.
- Ms. Elizabeth Allen stated that AFCEE and Castle AFB have developed a GIS-based interactive program. Mr. Brickeen stated that Travis AFB has a GIS-based program that works with ARC View. Ms. Stanley stated that Radian developed a program (McFacil) that is utilized at McClellan AFB.

Mr. Brickeen stated that he will contact Castle AFB to get more information.

- Ms. Villacorta stated that Ms. Raker determined that semi volatile organic compounds should be sampled annually at the treatment plant.

**ACTION ITEM LIST**  
**(Action Item Closed)**

| AGENDA | RESPONSIBLE | ACTION ITEM   | DUE DATE | STATUS  |
|--------|-------------|---|----------|---|
| 1.     | DTSC        | To check with California Department of Fish and Game for landfill surface debris that may comprise habitat.   | 8/16/00  | Deferred to U.S. EPA. Completed. <b>Item Closed.</b>  |
| 2.     | U.S. EPA    | For Dan Stralka to review the WABOU RI report and concur that the WABOU reference level for barium in soil is adequate for supporting the cleanup level at Site SD042 | Open     | <p>Mr. Salcedo stated that Mr. Mike Anderson will populate the database with existing data just as a back up. If the data set in the RI substantiates that the background level of barium is high, then there is no concern. It is just which background to use.</p> <p>Mr. Anderson stated that barium is detected all over the base.</p> <p>Mr. Anderson stated that this issue is delaying the remedial design documents. Travis AFB wanted to submit a sample remedial design for a simple site in order for the agencies to do a more accurate/appropriate review.</p> <p>Mr. Lucey asked if Mr. Michael Anderson wants to run through the program. Mr. Salcedo stated not at this time, he just wants to look at data set. Mr. Lucey suggested that Mr. Michael Anderson look at data and then contact Mr. Stralka.</p> <p>Completed. <b>Item Closed.</b></p> |

**ACTION ITEM LIST**  
**(Action Item Opened)**

| AGENDA | RESPONSIBLE | ACTION ITEM   | DUE DATE | STATUS    |
|--------|-------------|---|----------|-----------|
| 1.     | DTSC        | To submit no comment letter on the Treatment Plant Performance Monitoring Recommendations, WIOU NAAW, CAMU soil acceptance level technical memorandum, groundwater protection technical memorandum, ST032 technical memorandum, |          | New Item  |
| 2.     | Air Force   | To talk to the Civil Engineering operations concerning Landfill X use.  | Open     | New Item. |
| 3.     | Air Force   | To update the document under review list.   | 01/06/01 | New Item. |
| 4.     | U.S. EPA    | To provide comments on the ST032 technical memorandum.  | Open     | New Item. |